



Docket No. 20518/54 (S-8492-1)

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

APPLICANT: Barrus et al. Conf. No.: 3557  
Application No.: 10/659,131 Group Art Unit: 3763  
FILED: September 10, 2003 Examiner: Not Yet Assigned  
FOR: *SAFETY SHIELD FOR MEDICAL NEEDLES*

\*\*\*\*\*  
CERTIFICATE OF MAILING BY FIRST CLASS MAIL (37 CFR 1.8)

I hereby certify that this paper (along with any paper referred to as being attached or enclosed) is being deposited with the United States Postal Service on the date shown below with sufficient postage as first class mail in an envelope addressed to the: Mail Stop Amendment, Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450 on:

By: Michelle A. Phinney

Michelle A. Phinney

August 11, 2004  
Date

\*\*\*\*\*

INFORMATION DISCLOSURE STATEMENT

Mail Stop Amendment  
Commissioner for Patents  
P.O. Box 1450  
Alexandria, VA 22313-1450

Sir:

Pursuant to 37 C.F.R. §§ 1.97 and 1.98, applicant hereby submits an Information Disclosure Statement for consideration by the Examiner.

Copies of cited references can be found in parent application No. 09/892,593 filed on June 27, 2001.

I. LIST OF PATENTS, PUBLICATIONS OR OTHER INFORMATION

The patents, publications or other information submitted for consideration by the Office are listed on PTO-1449, attached hereto.

II. COPIES

a. X Submitted herewith is a legible copy of (i) each \*U.S and foreign patent; (ii) each publication or that portion which caused it to be listed; and (iii) all other information or that portion which caused it to be listed.

**\* Waiver**

The Office hereby waives the requirement under 37 CFR 1.98 (a)(2)(i) for submitting a copy of each cited U.S. patent and each U.S. patent application publication for all U.S. national patent applications filed after June 30, 2003 and for all international applications that have entered the national stage under 35 USC § 371 after June 30, 2003. *See* 37 CFR 1.491(b).

III. CONCISE EXPLANATION OF THE RELEVANCE

(check at least one box)

a. X Except as may be indicated below in (b), all of the patents, publications or other information are in the English language or were cited in an English language Search Report, a copy of which is attached hereto (concise explanation not required).

b. \_\_\_\_\_ A concise explanation of the relevance of all patents, publications or other information listed that is not in the English language is as follows:

EP 0 144 483 The syringe barrel (1) supports on a needle-side cylindrical mouthpiece (2) a needle hub (3) applied axially from outside and secured by an annular cap (4). The cylindrical mouthpiece (2) and needle hub (3) each have an outer collar (5, 6) which are pressed axially

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against one another by the annular cap (4) engaging over them. The cylindrical mouthpiece (2) has a conical inner surface (11) widening on the needle side and extending as far as the needle-side end face (10) of its outer collar (6), and the needle hub (3) has a cone part (12) bearing against the conical inner surface (11). The annular cap (4) engaging over the outer collar (5) of the needle hub (3) with an annular flange (13) is elastically engaged on the cylindrical mouthpiece (2) via an inner shoulder (15) engaging over the cylinder-side end face (14) of its outer collar (6).

EP 1 116 493 A1     Device anti-spade to handle with safety a needle of injection through the skin, made up from two plates (F,D) laid out one above the other and fixed one at the other by connections (B, C, E, A) such as the device can pass from a configuration where the two plates are applied one against the other to a configuration where they are isolated one of the other by sparing between them a space surrounded by the aforementioned connections and in which the part (17) of the needle which had penetrated in the skin is retractable progressively with its extraction.

c. \_\_\_\_\_

The following additional information is provided for the Examiner's consideration:

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## **FEES**

IV. **THIS IDS IS BEING FILED UNDER 37 C.F.R. § 1.97(b)**  
(check one box)

- a. \_\_\_\_\_ within three months of the filing date of a national application (37 C.F.R. § 1.97(b) (1)). No fee or certification is required.
- b. \_\_\_\_\_ within three months of the date of entry of the national stage as set forth in §1.491 in an international application (37 C.F.R. § 1.97(b) (2)). No fee or certification is required.
- c. X before the mailing date of a first Action on the merits (37 C.F.R. § 1.97(b) (3)). No fee or certification is required. In the event that a first Office Action on the merits has been issued, please consider this IDS under 37 C.F.R. § 1.97(c) and see the certification under 37 C.F.R. § 1.97(e)below, or, if no certification has been made, charge our deposit account a fee in the amount of \$180.00 as required by 37 C.F.R. § 1.17(p).

V. THIS IDS IS BEING FILED UNDER 37 C.F.R. § 1.97(c):  
(check one box)

before the mailing date of a Final Office Action under 37 C.F.R. § 1.113 (See 37 C.F.R. § 1.97(c) (1)) or before the mailing date of a Notice of Allowance under 37 C.F.R. § 1.311 (See 37 C.F.R. § 1.97(c) (2)).

a. X No certification; therefore, a fee in the amount of \$180.00 is required by 37 C.F.R. § 1.17(p).

or

b. \_\_\_\_\_ See the certification below. No fee is required.

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VI. CERTIFICATION UNDER 37 C.F.R. § 1.97(e) (check only one box)

The undersigned hereby certifies that

- a. \_\_\_\_\_ each item of information contained in the IDS was cited in a communication from a foreign Patent Office in a counterpart foreign application not more than three months prior to the filing of this IDS; or
- b. \_\_\_\_\_ no item of information contained in the IDS was cited in a communication from a foreign Patent Office in a counterpart foreign application or, to the best of my knowledge after making reasonable inquiry, was known to any individual designated in 37 C.F.R. § 1.56(c) more than three months prior to the filing of this statement.
- c. \_\_\_\_\_ some of the items of information were cited in a communication from a foreign Patent Office. As to this information, the undersigned certifies that each item of information contained in the IDS was cited in a communication from a foreign Patent Office in a counterpart foreign application not more than three months prior to the filing of this IDS. As to the remaining information, the undersigned hereby certifies that no item of this remaining information contained in the IDS was cited in a communication from a foreign Patent Office in a counterpart foreign application or, to the best of my knowledge after making reasonable inquiry, was known to any individual designated in 37 C.F.R. § 1.56(c) more than three months prior to the filing of this statement.

X \_\_\_\_\_

please charge Deposit Account No. 50-0369 in the amount of \$180.00 for the above-indicated fee. A triplicate copy of this paper is attached.

\_\_\_\_\_

No fee is required.

Application No.: 10/659,131  
Filed: September 10, 2003  
Group Art Unit: 3763

VI. CERTIFICATION UNDER 37 C.F.R. § 1.97(e) (check only one box)

The undersigned hereby certifies that

- a. \_\_\_\_\_ each item of information contained in the IDS was cited in a communication from a foreign Patent Office in a counterpart foreign application not more than three months prior to the filing of this IDS; or
- b. \_\_\_\_\_ no item of information contained in the IDS was cited in a communication from a foreign Patent Office in a counterpart foreign application or, to the best of my knowledge after making reasonable inquiry, was known to any individual designated in 37 C.F.R. § 1.56(c) more than three months prior to the filing of this statement.
- c. \_\_\_\_\_ some of the items of information were cited in a communication from a foreign Patent Office. As to this information, the undersigned certifies that each item of information contained in the IDS was cited in a communication from a foreign Patent Office in a counterpart foreign application not more than three months prior to the filing of this IDS. As to the remaining information, the undersigned hereby certifies that no item of this remaining information contained in the IDS was cited in a communication from a foreign Patent Office in a counterpart foreign application or, to the best of my knowledge after making reasonable inquiry, was known to any individual designated in 37 C.F.R. § 1.56(c) more than three months prior to the filing of this statement.

X \_\_\_\_\_ please charge Deposit Account No. 50-0369 in the amount of \$180.00 for the above-indicated fee. A triplicate copy of this paper is attached.

\_\_\_\_\_ No fee is required.

Application No.: 10/659,131  
Filed: September 10, 2003  
Group Art Unit: 3763

VII. THIS IDS IS BEING FILED UNDER 37 C.F.R. § 1.704(d) (PATENT TERM  
ADJUSTMENT)

Applies to original applications (other than design) filed on or after May 29, 2000

a. \_\_\_\_\_ Each item of information contained in the Information Disclosure Statement was cited in a communication from a foreign patent office in a counterpart application and this communication was not received by any individual designated in § 1.56(c) more than thirty days prior to the filing of the Information Disclosure Statement.

b. X Enclosed herewith is form PTO-1449.

c. \_\_\_\_\_ Copies of cited references are enclosed.

d. X Copies of cited references are enclosed except those entered in prior application U.S. Application No. 09/892,593 filed on June 27, 2001, to which priority under 35 U.S.C. 120 is claimed. [The earlier application contains copies of the cited references.]

e. \_\_\_\_\_ The listed references were cited in the enclosed International Search Report in a counterpart foreign application.

f. \_\_\_\_\_ The “concise explanation” requirement (non-English references) for reference under 37 CFR 1.98(a)(3) is satisfied by:

[ ] the explanation provided on the attached sheet.

[ ] the explanation provided in the Specification.

[ ] submission of the enclosed International Search Report.

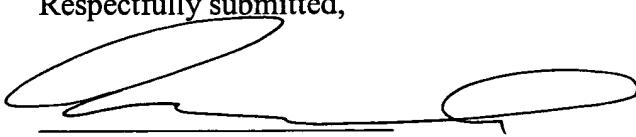
[ ] the enclosed English language abstract.

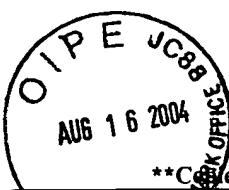
Application No.: 10/659,131  
Filed: September 10, 2003  
Group Art Unit: 3763

If the Examiner has any questions concerning this IDS, he/she is requested to contact the undersigned. If it is determined that this IDS has been filed under the wrong rule, the PTO is requested to consider this IDS under the proper rule (with a petition, if necessary) and charge the appropriate fee to Deposit Account No. 50-0369.

Respectfully submitted,

Date: 8-6-2004

  
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Sheet 1 of 15

\*\*Copies of the cited references with an asterisk can be found in parent application No. 09/892,593 filed on June 27, 2001.

FORM PTO-1449

INFORMATION DISCLOSURE STATEMENT

ATTY DOCKET NO.

20518/54 (S-8492-1)

SERIAL NO.

10/659,131

APPLICANT(S): Barrus et al.

FILING DATE:  
September 10, 2003

ART UNIT:  
3763

UNITED STATES PATENT DOCUMENTS

EXAM. INITIAL		DOCUMENT NUMBER	DATE	INVENTOR	CLASS	SUB CLASS	FIL. DATE IF APPR
	*	RE 34,045	08/25/1992	B. McFarland	604	198	
	*	RE 37,110E	03/27/2001	Hollister	206	365	
	*	RE 37,252E	07/03/20012	Hollister	206	364	
	*	1,779,451	10/28/1930	C. Sponsel	-	-	
	*	2,559,474	07/03/1951	A.J. Son	128	215	
	*	2,700,385	01/25/1955	M. Ortiz	128	215	
	*	2,836,942	06/03/1958	J.J. Miskel	53	25	
	*	2,854,976	10/07/1958	S.E. Heydrich	128	221	
	*	2,953,243	09/20/1960	Z.M. Roehr	206	43	
	*	3,021,942	02/20/1962	D.A. Hamilton	206	43	
	*	3,073,307	01/15/1963	P.A. Stevens	128	221	
	*	3,074,542	01/22/1963	S. Myerson et al.	206	43	
	*	3,255,873	06/14/1966	I.A. Speelman	206	56	
	*	3,294,231	12/27/1966	R.C. Vanderbeck	206	63	

FOREIGN PATENT DOCUMENTS

	DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB CLASS	TRAN Y/N
	EP 0 144 483 A2	06/19/1985	EPO	A61M	5/00	N
*	EP 0 344 606 A2	12/06/1989	EPO			
*	EP 0 457 477 B1	11/21/1991	EPO			
*	EP 0 485 345 B1	05/13/1992	EPO			

OTHER DOCUMENTS (INCLUDING AUTHOR, TITLE, DATE, PERTINENT PAGES, ETC.)

Examiner:	Date:

\*\*Copies of the cited references with an asterisk can be found in parent application No. 09/892,593 filed on June 27, 2001.

<b>FORM PTO-1449</b> <b>INFORMATION DISCLOSURE STATEMENT</b>			ATTY DOCKET NO.	SERIAL NO.			
			20518/54 (S-8492-1)	10/659,131			
			APPLICANT(S): Barrus et al.				
			FILING DATE: September 10, 2003	ART UNIT: 3763			
<b>UNITED STATES PATENT DOCUMENTS</b>							
EXAM. INITIAL		DOCUMENT NUMBER	DATE	INVENTOR	CLASS	SUB CLASS	FIL. DATE IF APPR
	*	3,323,523	06/06/1967	H.M. Scislowicz et al.	128	214	
	*	3,329,146	07/04/1967	L.F. Waldman, Jr.	128	221	
	*	3,333,682	08/01/1967	G.K. Burke	206	43	
	*	3,367,488	02/06/1968	D.A. Hamilton	206	63	
	*	3,485,239	12/23/1969	R.C. Vanderbeck	128	218	
	*	3,537,452	11/03/1970	G.W. Wilks	128	214	
	*	3,587,575	06/28/1971	E.S. Lichtenstein	128	215	
	*	3,610,240	10/05/1971	A. Harautuneian	128	214	
	*	3,658,061	04/25/1972	J.P. Hall	128	214	
	*	3,828,775	08/13/1974	Armel	128	218	
	*	3,840,008	10/08/1974	Noiles	128	221	
	*	3,890,971	06/24/1975	Leeson et al.	128	218	
	*	3,904,033	09/09/1975	Haerr	206	349	
	*	3,934,722	01/27/1976	Goldberg	206	365	
<b>FOREIGN PATENT DOCUMENTS</b>							
		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB CLASS	TRAN Y/N
	*	EP 0 533 308 A1	03/24/1993	EPO			
	*	EP 0 585 391 B1	03/09/1994	EPO			
	*	EP 0 597 857 B1	05/25/1994	EPO			
	*	EP 0 603 365 B1	06/29/1994	EPO			
<b>OTHER DOCUMENTS (INCLUDING AUTHOR, TITLE, DATE, PERTINENT PAGES, ETC.)</b>							
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UNITED STATES PATENT DOCUMENTS							
EXAM. INITIAL		DOCUMENT NUMBER	DATE	INVENTOR	CLASS	SUB CLASS	FIL. DATE IF APPR
	*	3,968,876	07/13/1976	Brookfield	206	365	
	*	4,040,419	08/09/1977	Goldman	128	215	
	*	4,106,621	08/15/1978	Sorenson	206	365	
	*	4,113,090	09/12/1978	Carstens	206	365	
	*	4,139,009	02/13/1979	Alvarez	128	218	
	*	4,175,008	11/20/1979	White	435	295	
	*	4,270,536	06/02/1981	Lemelson	128	218	
	*	4,300,678	11/17/1981	Gyure et al.	206	364	
	*	4,375,849	03/08/1983	Hanifl	206	366	
	*	4,430,082	02/07/1984	Schwabacher	604	263	
	*	4,592,744	06/03/1986	Jagger et al.	604	192	
	*	4,634,428	01/06/1987	Cuu	604	110	
	*	4,643,722	02/17/1987	Smith, Jr.	604	192	
	*	4,659,330	04/21/1987	Nelson et al.	604	192	
FOREIGN PATENT DOCUMENTS							
		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB CLASS	TRAN Y/N
	*	EP 0 626 924 B1	12/07/1994	EPO			
	*	EP 0 654 281 B1	05/24/1995	EPO			
	*	EP 0 705 613 B1	04/10/1996	EPO			
	*	EP 0 713 710 A1	29/05/1996	EPO	A61M	5/32	Y
OTHER DOCUMENTS (INCLUDING AUTHOR, TITLE, DATE, PERTINENT PAGES, ETC.)							
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UNITED STATES PATENT DOCUMENTS							
EXAM. INITIAL		DOCUMENT NUMBER	DATE	INVENTOR	CLASS	SUB CLASS	FIL. DATE IF APPR
	*	4,664,259	05/12/1987	Landis	206	365	
	*	4,664,654	05/12/1987	Strauss	604	198	
	*	4,681,567	07/21/1987	Masters et al.	604	198	
	*	4,695,274	09/22/1987	Fox	604	198	
	*	4,702,738	10/27/1987	Spencer	604	198	
	*	4,723,943	02/09/1988	Spencer	604	198	
	*	4,728,320	03/01/1988	Chen	604	110	
	*	4,728,321	03/01/1988	Chen	604	110	
	*	4,731,059	03/15/1988	Wanderer et al.	604	192	
	*	4,735,311	04/05/1988	Lowe et al.	206	365	
	*	4,735,618	04/05/1988	Hagen	604	192	
	*	4,737,144	04/12/1988	Choksi	604	198	
	*	4,738,663	04/19/1988	Bogan	604	198	
	*	4,743,233	05/10/1988	Schneider	604	192	
FOREIGN PATENT DOCUMENTS							
		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB CLASS	TRAN Y/N
	*	EP 0 807 443 A2	19/11/1997	EPO	A61M	5/32	Y
	*	EP 0 815 888 A2	01/07/1998	EPO			
	*	EP 0 815 890 A2	01/07/1998	EPO			
	*	EP 0 819 441 A1	01/21/1998	EPO			
OTHER DOCUMENTS (INCLUDING AUTHOR, TITLE, DATE, PERTINENT PAGES, ETC.)							
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			FILING DATE: September 10, 2003		ART UNIT: 3763		
			<b>UNITED STATES PATENT DOCUMENTS</b>				
EXAM. INITIAL		DOCUMENT NUMBER	DATE	INVENTOR	CLASS	SUB CLASS	FIL. DATE IF APPR
	*	4,747,836	05/31/1988	Luther	604	198	
	*	4,747,837	05/31/1988	Hauck	604	198	
	*	4,772,272	09/20/1988	McFarland	604	198	
	*	4,778,453	10/18/1988	Lopez	604	110	
	*	4,781,697	11/01/1988	Slaughter	604	192	
	*	4,782,841	11/08/1988	Lopez	128	164	
	*	4,790,828	12/13/1988	Dombrowski et al.	604	198	
	*	4,795,432	01/03/1989	Karczmer	604	110	
	*	4,795,443	01/03/1989	Permenter et al.	604	198	
	*	4,801,295	01/31/1989	Spencer	604	198	
	*	4,804,372	02/14/1989	Laico et al.	604	198	
	*	4,813,426	03/21/1989	Haber et al.	128	763	
	*	4,816,022	03/28/1989	Poncy	604	198	
	*	4,816,024	03/28/1989	Sitar et al.	604	192	
<b>FOREIGN PATENT DOCUMENTS</b>							
		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB CLASS	TRAN Y/N
	*	EP 0 832 659 A2	04/01/1998	EPO			
	*	EP 0 832 660 A2	04/01/1998	EPO			
		EP 1 092 443 A2	04/18/2001	EPO	A61M	5/32	Y
	*	EP 1 116 493 A1	18/07/2001	EPO	A61M	25/06	N
<b>OTHER DOCUMENTS (INCLUDING AUTHOR, TITLE, DATE, PERTINENT PAGES, ETC.)</b>							
Examiner:				Date:			

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			FILING DATE: September 10, 2003		ART UNIT: 3763		
			UNITED STATES PATENT DOCUMENTS				
EXAM. INITIAL		DOCUMENT NUMBER	DATE	INVENTOR	CLASS	SUB CLASS	FIL. DATE IF APPR
	*	4,819,659	04/11/1989	Sitar	128	764	
	*	4,820,277	04/11/1989	Norelli	604	192	
	*	4,826,490	05/02/1989	Byrne et al.	604	198	
	*	4,826,491	05/02/1989	Schramm	604	198	
	*	4,838,871	06/13/1989	Luther	604	192	
	*	4,840,619	06/20/1989	Hughes	604	187	
	*	4,842,587	06/27/1989	Poncy	604	198	
	*	4,846,796	07/11/1989	Carrell et al.	604	110	
	*	4,846,811	07/11/1989	Vanderhoof	604	263	
	*	4,850,968	07/25/1989	Romano	604	110	
	*	4,850,976	07/25/1989	Heinrich et al.	604	192	
	*	4,850,977	07/25/1989	Bayless	604	198	
	*	4,850,978	07/25/1989	Dudar et al.	604	201	
	*	4,850,994	07/25/1989	Zerbst et al.	604	198	
FOREIGN PATENT DOCUMENTS							
		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB CLASS	TRAN Y/N
		GB 1 233 302	05/26/1971	Great Britain	A61b	17/06	Y
	*	GB 2 283 429 A	05/10/1995	Great Britain			
	*	GB 2 369 779	12/06/2002	Great Britain	A61M	5/32	Y
	*	JP 10-76007	03/24/1998	Japan			
OTHER DOCUMENTS (INCLUDING AUTHOR, TITLE, DATE, PERTINENT PAGES, ETC.)							
Examiner:				Date:			

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			APPLICANT(S): Barrus et al.				
			FILING DATE: September 10, 2003	ART UNIT: 3763			
UNITED STATES PATENT DOCUMENTS							
EXAM. INITIAL		DOCUMENT NUMBER	DATE	INVENTOR	CLASS	SUB CLASS	FIL. DATE IF APPR
	*	4,850,996	07/25/1989	Cree	604	198	
	*	4,858,607	08/22/1989	Jordan et al.	128	314	
	*	4,863,434	09/05/1989	Bayless	604	198	
	*	4,863,435	09/05/1989	Sturman et al.	604	198	
	*	4,863,436	09/05/1989	Glick	604	198	
	*	4,867,172	09/19/1989	Haber et al.	128	763	
	*	4,867,746	09/19/1989	Dufresne	604	192	
	*	4,872,552	10/10/1989	Unger	206	365	
	*	4,874,382	10/17/1989	Lindemann et al.	604	195	
	*	4,874,383	10/17/1989	McNaughton	604	198	
	*	4,874,384	10/17/1989	Nunez	604	198	
	*	4,883,469	11/28/1989	Glazier	604	192	
	*	4,886,503	12/12/1989	Miller	604	192	
	*	4,887,998	12/19/1989	Martin et al.	604	110	
FOREIGN PATENT DOCUMENTS							
		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB CLASS	TRAN Y/N
	*	JP 10-127765	05/19/1998	Japan			
	*	WO 00/38765	06/07/00	PCT	A61M	5/178	Y
	*	WO 87/07162	12/03/1987	PCT			
OTHER DOCUMENTS (INCLUDING AUTHOR, TITLE, DATE, PERTINENT PAGES, ETC.)							
		Published Application No. US 2002/0004650 A1, Publication Date January 10, 2002, Kuracina et al.					
Examiner:				Date:			

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			20518/54 (S-8492-1)	10/659,131			
			APPLICANT(S): Barrus et al.				
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UNITED STATES PATENT DOCUMENTS							
EXAM. INITIAL		DOCUMENT NUMBER	DATE	INVENTOR	CLASS	SUB CLASS	FIL. DATE IF APPR
	*	4,888,001	12/19/1989	Schoenberg	604	162	
	*	4,892,107	01/09/1990	Haber	128	763	
	*	4,892,521	01/09/1990	Laico et al.	604	192	
	*	4,898,589	02/06/1990	Dolgin et al.	604	198	
	*	4,900,309	02/13/1990	Netherton et al.	604	192	
	*	4,904,244	02/27/1990	Harsh et al.	604	187	
	*	4,911,694	03/27/1990	Dolan	604	198	
	*	4,911,706	03/27/1990	Levitt	604	198	
	*	4,927,018	05/22/1990	Yang et al.	206	365	
	*	4,929,241	05/29/1990	Kulli	604	263	
	*	4,935,012	06/19/1990	Magre et al.	604	192	
	*	4,935,013	06/19/1990	Haber et al.	604	192	
	*	4,936,830	06/26/1990	Verlier	604	110	
	*	4,944,397	07/31/1990	Miller	206	365	
FOREIGN PATENT DOCUMENTS							
		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB CLASS	TRAN Y/N
	*	WO 89/07955	09/08/1989	PCT			
	*	WO 93/17732	16/09/93	PCT	A61M	3/00	Y
	*	WO 94/19036	09/01/1994	PCT			
	*	WO 97/31666	04/09/1997	PCT	A61M	5/00	Y
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			UNITED STATES PATENT DOCUMENTS				
EXAM. INITIAL		DOCUMENT NUMBER	DATE	INVENTOR	CLASS	SUB CLASS	FIL. DATE IF APPR
	*	4,944,731	07/31/1990	Cole	604	192	
	*	4,950,249	08/21/1990	Jagger et al.	604	192	
	*	4,950,250	08/21/1990	Haber et al.	604	192	
	*	4,978,344	12/18/1990	Dombrowski et al.	604	198	
	*	4,982,842	01/08/1991	Hollister	206	365	
	*	4,985,021	01/15/1991	Straw et al.	604	198	
	*	4,994,041	02/19/1991	Dombrowski et al.	604	164	
		4,966,589	10/30/1990	Kaufman	604	174	
	*	5,000,744	03/19/1991	Hoffman et al.	604	232	
	*	5,015,240	05/14/1991	Soproni et al.	604	192	
	*	5,057,089	10/15/1991	Greco	604	198	
	*	5,059,180	10/22/1991	McLees	604	110	
	*	5,092,851	03/03/1992	Ragner	604	192	
	*	5,108,379	04/28/1992	Dolgin et al.	604	198	
	*	5,135,509	08/04/1992	Olliffree	604	192	
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		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB CLASS	TRAN Y/N
	*	WO 98/07463	02/26/1998	PCT			
	*	WO 98/10816	03/19/1998	PCT			
	*	WO 98/11928	03/26/1998	PCT			
	*	WO 98/13081	04/02/1998	PCT			
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EXAM. INITIAL		DOCUMENT NUMBER	DATE	INVENTOR	CLASS	SUB CLASS	FIL. DATE IF APPR
	*	5,139,489	08/18/1992	Hollister	604	192	
	*	5,147,303	09/15/1992	Martin	604	110	
	*	5,154,285	10/13/1992	Hollister	206	365	
	*	5,176,655	01/05/1993	McCormick et al.	604	198	
	*	5,176,656	01/05/1993	Bayless	604	198	
	*	5,193,552	03/16/1993	Columbus et al.	128	760	
	*	5,195,983	03/23/1993	Boese	604	192	
	*	5,209,739	05/11/1993	Talalay	604	195	
	*	5,232,454	08/03/1993	Hollister	604	192	
	*	5,232,455	08/03/1993	Hollister	604	192	
	*	5,242,417	09/07/1993	Paudler	604	192	
	*	5,242,418	09/07/1993	Weinstein	604	192	
	*	5,246,427	09/21/1993	Sturman et al.	604	192	
	*	5,246,428	09/21/1993	Falknor	604	198	
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		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB CLASS	TRAN Y/N
	*	WO 00/16832	03/30/2000	PCT			
	*	WO 01/32241 A1	05/10/2001	PCT			Y
	*	WO 01/32244 A1	05/10/2001	PCT			Y
<b>OTHER DOCUMENTS (INCLUDING AUTHOR, TITLE, DATE, PERTINENT PAGES, ETC.)</b>							
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EXAM. INITIAL		DOCUMENT NUMBER	DATE	INVENTOR	CLASS	SUB CLASS	FIL. DATE IF APPR
	*	5,250,031	10/05/1993	Kaplan et al.	604	110	
	*	5,254,099	10/19/1993	Kuracina et al.	604	198	
	*	5,256,152	10/26/1993	Marks	604	198	
	*	5,256,153	10/26/1993	Hake	604	198	
	*	5,277,311	01/11/1994	Hollister	206	365	
	*	5,290,255	03/01/1994	Vallelunga et al.	604	197	
	*	5,304,137	04/19/1994	Fluke	604	110	
	*	5,312,369	05/17/1994	Arcusin et al.	604	192	
	*	5,334,158	08/02/1994	McLees	604	110	
	*	5,348,544	09/20/1994	Sweeney et al.	604	192	
	*	5,356,392	10/18/1994	Firth et al.	604	198	
	*	5,403,283	04/04/1995	Luther	604	164	
	*	5,403,286	04/04/1995	Lockwood, Jr.	604	110	
	*	5,407,436	04/18/1995	Toft et al.	604	195	
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UNITED STATES PATENT DOCUMENTS							
EXAM. INITIAL		DOCUMENT NUMBER	DATE	INVENTOR	CLASS	SUB CLASS	FIL. DATE IF APPR
	*	5,411,492	05/02/1995	Sturman et al.	604	263	
	*	5,423,765	06/13/1995	Hollister	604	192	
	*	5,423,766	06/13/1995	Di Cesare	604	192	
	*	5,425,720	06/20/1995	Rogalsky et al.	604	198	
	*	5,447,501	09/05/1995	Karlsson et al.	604	198	
	*	5,466,223	11/14/1995	Bressler et al.	604	110	
	*	5,480,385	01/02/1996	Thorne et al.	604	110	
	*	5,487,733	01/30/1996	Caizza et al.	604	110	
	*	5,487,734	01/30/1996	Thorne et al.	604	195	
	*	5,490,841	02/13/1996	Landis	604	110	
	*	5,498,243	03/12/1996	Vallelunga et al.	604	197	
	*	5,531,694	07/02/1996	Clemens et al.	604	110	
	*	5,533,980	07/09/1996	Sweeney et al.	604	192	
	*	5,538,508	07/23/1996	Steyn	604	192	
	*	5,542,927	08/06/1996	Thorne et al.	604	110	
		5,445,618	08/29/1995	Adobbbati	604	192	
		5,536,240	07/16/1996	Edwards et al.	604	22	
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EXAM. INITIAL		DOCUMENT NUMBER	DATE	INVENTOR	CLASS	SUB CLASS	FIL. DATE IF APPR
	*	5,549,568	08/27/1996	Shields	604	192	
	*	5,549,570	08/27/1996	Rogalsky	604	198	
	*	5,549,708	08/27/1996	Thorne et al.	604	110	
	*	5,562,629	10/08/1996	Haughton et al.	604	158	
	*	5,562,631	10/08/1996	Bogert	604	164	
	*	5,573,510	11/12/1996	Isaacson	604	158	
	*	5,584,816	12/17/1996	Gyure et al.	604	192	
	*	5,584,818	12/17/1996	Morrison	604	197	
	*	5,599,318	02/4/1997	B. Sweeney et al.	604	263	
		5,611,782	03/18/1997	Haedt	604	198	
	*	5,643,220	07/01/1997	Cosme	604	192	
	*	5,672,161	09/30/1997	Allen et al.	604	263	
	*	5,695,474	12/09/1997	Daugherty	604	162	
	*	5,695,477	12/09/1997	Sfikas	604	241	
	*	5,700,249	12/23/1997	Jenkins	604	263	
	*	5,735,827	04/07/1998	Adwers et al.	604	263	
	*	5,738,665	04/14/1998	Caizza et al.	604	263	
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		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB CLASS	TRAN Y/N
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	*	5,746,718	05/05/1998	Steyn	604	192	
	*	5,746,726	05/05/1998	Sweeney et al.	604	263	
	*	5,755,699	05/26/1998	Blecher et al.	604	198	
	*	5,814,018	09/29/1998	Elson et al.	604	110	
		5,817,064	10/06/1998	DeMarco et al.	604	198	
	*	5,823,997	10/20/1998	Thorne	604	110	
	*	5,843,041	12/01/1998	Hake et al.	604	198	
		5,879,330	03/09/1999	Bell	604	93	
	*	5,910,130	06/08/1999	Caizza et al.	604	110	
	*	5,919,168	07/06/1999	Wheeler	604	198	
		5,921,969	07/13/1999	Vallelunga et al.	604	263	
	*	5,925,020	07/20/1999	Nestell	604	198	
		5,951,522	09/14/1999	Rosato et al.	604	177	
	*	5,957,892	09/28/1999	Thorne	604	162	
	*	5,980,488	11/09/1999	Thorne	604	110	
	*	6,015,397	01/18/2000	Elson et al.	604	192	
	*	6,036,675	03/14/2000	Thorne et al.	604	232	
	*	6,149,629	11/21/2000	Wilson et al.	604	198	
	*	6,171,284 B1	01/09/2001	Kao et al.	604	192	

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	DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB CLASS	TRAN Y/N

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	*	6,224,576 B1	05/01/2001	Thorne et al.	604	198	
	*	6,254,575 SHPI	07/03/2001	Thorne, Jr. et al.	604	198	
	*	6,280,420 SHPI	08/28/2001	Ferguson et al.	604	198	
	*	6,334,857 B1	01/01/2002	Hollister et al.	604	263	01/11/1999
	*	2001/0039401		Ferguson et al.			
	*	2002/0072716		Barrus et al.			
	*	2003/0004465		Ferguson et al.			
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